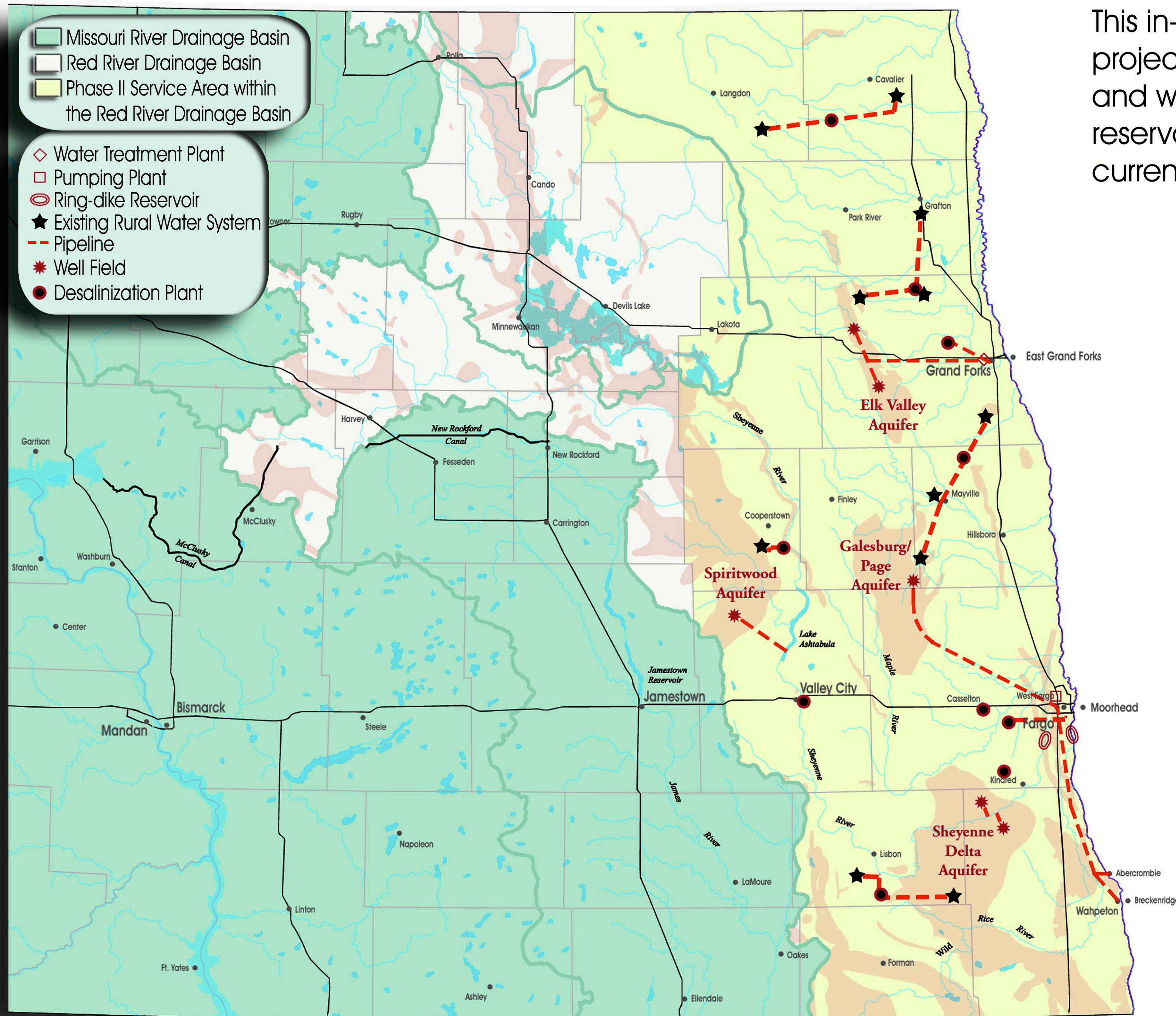


ALTERNATIVE 4: In-Basin, Groundwater Alternative



This in-basin alternative attempts to meet the projected shortages without importing water and without adding any major surface-water reservoirs. It relies on groundwater to supplement current surface-water supplies.

Features:

1. Build ring-dike reservoirs on the Sheyenne and Red rivers near Fargo to store spring flows.
2. Construct a water-supply pipeline from the ring-dike on the Sheyenne River to upper Red River near Wahpeton.
3. Drill new well field on the Spiritwood Aquifer.
4. Purchase existing irrigation water rights.
5. Use the West Fargo North Aquifer for water storage and recovery (artificial recharge).
6. Build desalinization plants on the Dakota Aquifer at 10 different locations in the valley.
7. Incorporate water conservation measures.